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(54) PIPE CABLE JUNCTURE FOR DIRECT
EMBEDMENT-TYPE AND PNEUMATIC
FEED-SYSTEM OPTICAL FIBER

this sheath connector 30 and executing the mechanical
connection of the corrugated steel pipe armors to each
other and water shielding.

(57) Abstract:

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PURPOSE: To provide a pipe cable juncture for a direct
embedding-type and pneumatic feed-system optical
fibers which is compact, has a mechanical strength,
waterproofness and other reliability adequate for direct
laying at river embankments, road, along railway lines,
etc., and is easy to be assembled on outdoor laying site
as well.

CONSTITUTION: This pipe cable juncture for the direct
embedding-type and pneumatic feed-system optical
fibers is formed by applying waterproof sheaths 14 on
the outer side arranged with pipes 12 for pneumatic
feeding of optical fiber units and other members and
applying corrugated steel pipe armors 15 thereon. The
pipe cable juncture has a three-layered cylindrical
structure composed of (a) a pipe connector 21 for
airtightly connecting the pipes to each other, (b) a
sheath connector 30 for enveloping the juncture of the
pipe connectors 21 and other arranged members and
executing waterproof connection of waterproof sheaths to
each other and (c) an armor connector 40 for enveloping

